

The Michigan ENHANCE 911

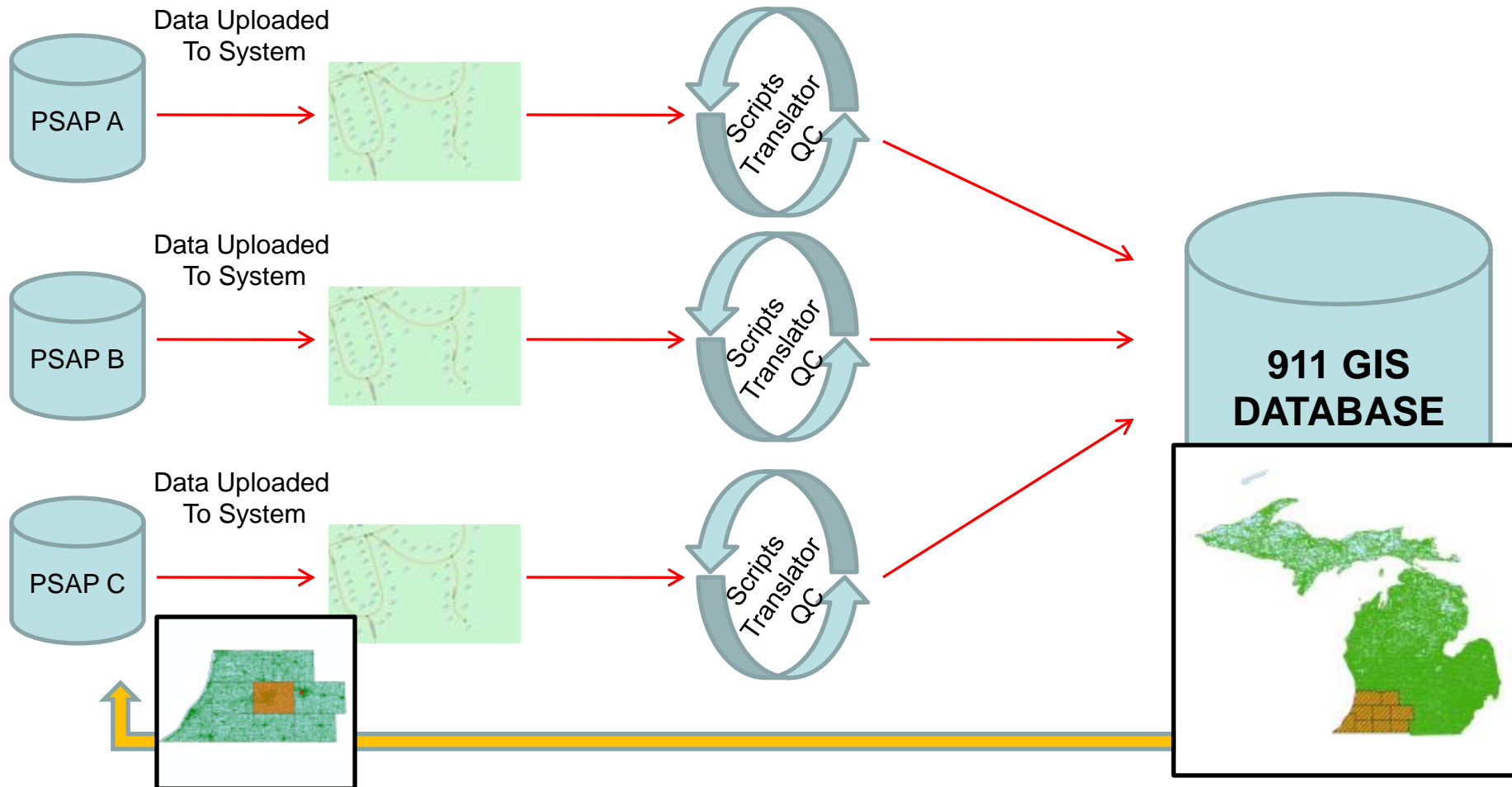
GIS Repository Guide
2015



ENHANCE 911 Act Grant Project

- ◆ Created a central 911 GIS Repository
 - Enabling PSAPs to share GIS information
 - Establishing MOAs
 - Setting standards for GIS data entry
 - Future framework for NG911 database
- ◆ Statewide Public Safety Answering Point (PSAP) boundary layer
- ◆ Statewide road centerline layer

How does it work?



911 User Request

This form is used to request access to the 911 GIS repository. It is located under “Current Issues” on the State 911 Committee website.

STATE OF MICHIGAN GIS REPOSITORY USER REQUEST

To register application users, the PSAP Director must provide the information in this table and return it via e-mail to armitagem@michigan.gov or fax it to (517) 241-0387, Attn: Mr. Michael Armitage. A description of each role is provided below the table.

911 Repository Role	Name	Organization	Email and phone #
PSAP Administrator			
Alternate PSAP Administrator(s) (Optional)			
Data Importer(s)			
Data Exporter(s)			
Restricted Administrator			

Name: _____

Signature: _____

If you have any questions or concerns about this process, please contact:
Mr. Michael Armitage, armitagem@michigan.gov at MSP at (517) 241-2809, fax (517) 241-0387 or
Mr. Mark Holmes, holmesm3@michigan.gov at CSS at (517) 373-7910, fax (517) 373-2939.

PSAP Administrator – This role is established for the person who will be managing the accounts for the users within a specific PSAP jurisdiction. This role will typically be assigned to the 911 Director. This access is limited to PSAPs that are a branch of the entity that is party to the ‘memorandum of understanding’ for the 911 GIS Repository.

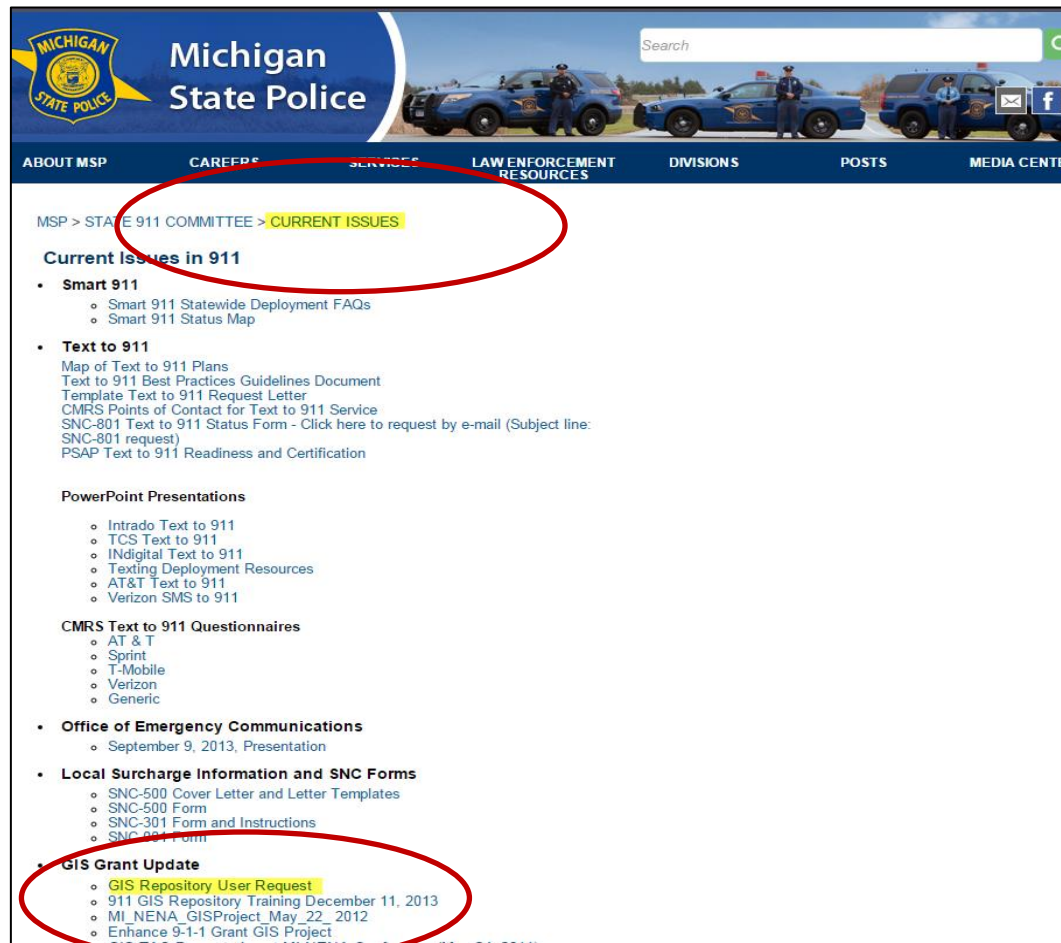
Alternate PSAP Administrator(s) (optional) – This role is established for a person to provide a backup role to the PSAP Administrator for assigning logins or accounts. This role will have the same permissions level in the system as the PSAP Administrator.

Data Importer(s) – This role is established for a person who will be providing GIS data updates to the repository system. This role can be assigned to a PSAP staff member, county GIS department staff member or a vendor. This role is typically assigned to the person who is maintaining the GIS data.

Data Exporter(s) – This role is established for a person who will be extracting GIS data from the repository for 911 purposes on a regular basis. For example, the data exporter might be the person who typically integrates GIS data with existing CAD systems.

Restricted Administrator - This role is established as a ‘view only’ for PSAPs that are not a branch of the government which is party to the ‘memorandum of understanding’ for the 911 GIS Repository.

911 User Request - michigan.gov/snc



Michigan State Police

Search

ABOUT MSP CAREERS SERVICES LAW ENFORCEMENT RESOURCES DIVISIONS POSTS MEDIA CENTER

MSP > STATE 911 COMMITTEE > **CURRENT ISSUES**

Current Issues in 911

- **Smart 911**
 - Smart 911 Statewide Deployment FAQs
 - Smart 911 Status Map
- **Text to 911**
 - Map of Text to 911 Plans
 - Text to 911 Best Practices Guidelines Document
 - Template Text to 911 Request Letter
 - CMRS Points of Contact for Text to 911 Service
 - SNC-801 Text to 911 Status Form - Click here to request by e-mail (Subject line: SNC-801 request)
 - PSAP Text to 911 Readiness and Certification
- **PowerPoint Presentations**
 - Intrado Text to 911
 - TCS Text to 911
 - INdigital Text to 911
 - Texting Deployment Resources
 - AT&T Text to 911
 - Verizon SMS to 911
- **CMRS Text to 911 Questionnaires**
 - AT & T
 - Sprint
 - T-Mobile
 - Verizon
 - Generic
- **Office of Emergency Communications**
 - September 9, 2013, Presentation
- **Local Surcharge Information and SNC Forms**
 - SNC-500 Cover Letter and Letter Templates
 - SNC-500 Form
 - SNC-301 Form and Instructions
 - SNC-201 Form
- **GIS Grant Update**
 - **GIS Repository User Request**
 - 911 GIS Repository Training December 11, 2013
 - MI_NENA_GISProject_May_22_2012
 - Enhance 9-1-1 Grant GIS Project

PSAP Administration Tools

- ◆ Each PSAP (with MOU in place) will have primary designated PSAP Administrator
- ◆ Each PSAP (with MOU in place) can assign alternate PSAP Administrators
- ◆ Internal communication for approval processes needs to be determined locally
 - For example, approving PSAP boundary changes

Roles

PSAP Administrator	This role is established for the person who will be managing the accounts for the users within a specific PSAP jurisdiction. This role will typically be assigned to the 911 Director. This access is limited to PSAPs that are a branch of the entity that is party to the ‘memorandum of understanding’ for the 911 GIS Repository.
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Restricted Administrator	This role is established as a ‘view only’ for PSAPs that are not a branch of the government which is party to the ‘memorandum of understanding’ for the 911 GIS Repository.

Single Sign-On

<https://sso.state.mi.us>

State of Michigan Single Sign On 

Please Login or Sign-Up to use Single Sign-On

Login

User ID:

Password:

Forgot Password?

If you have forgotten your password, click Need Password.
Single Sign-On system will email you a new temporary password.

Access to the 911 GIS Repository is through the State of Michigan single sign-on (SSO)

Single Sign-On

<https://sso.state.mi.us>

Sign-Up

If you are a new user to Single Sign-On, click Register to create your User ID and Password.

Register

Creating a SSO account is simple. There is a 'Sign-Up' option on the main SSO sign-on page.

Single Sign-On

<https://sso.state.mi.us>

To access the 911 GIS repository, click on 'subscribe to applications' once you sign-in through SSO. You will then need to select 'Michigan State Police' and '911 GIS Data Repository' from the pull-down menus.



The screenshot shows the 'State of Michigan Single Sign On' interface. At the top, there is a banner with the title 'State of Michigan Single Sign On' and a background image of a bridge. Below the banner, the section is titled 'SUBSCRIPTION'. The instruction 'Please Select from the list' is followed by two dropdown menus. The first dropdown menu is set to 'Michigan State Police' and the second is set to '911 GIS Data Repository'. Below the dropdowns are two buttons: 'Next' and 'Back'. At the bottom of the page, the copyright notice reads 'Copyright © 2008 State Of Michigan. All rights reserved'.

State of Michigan Single Sign On

SUBSCRIPTION

Please Select from the list

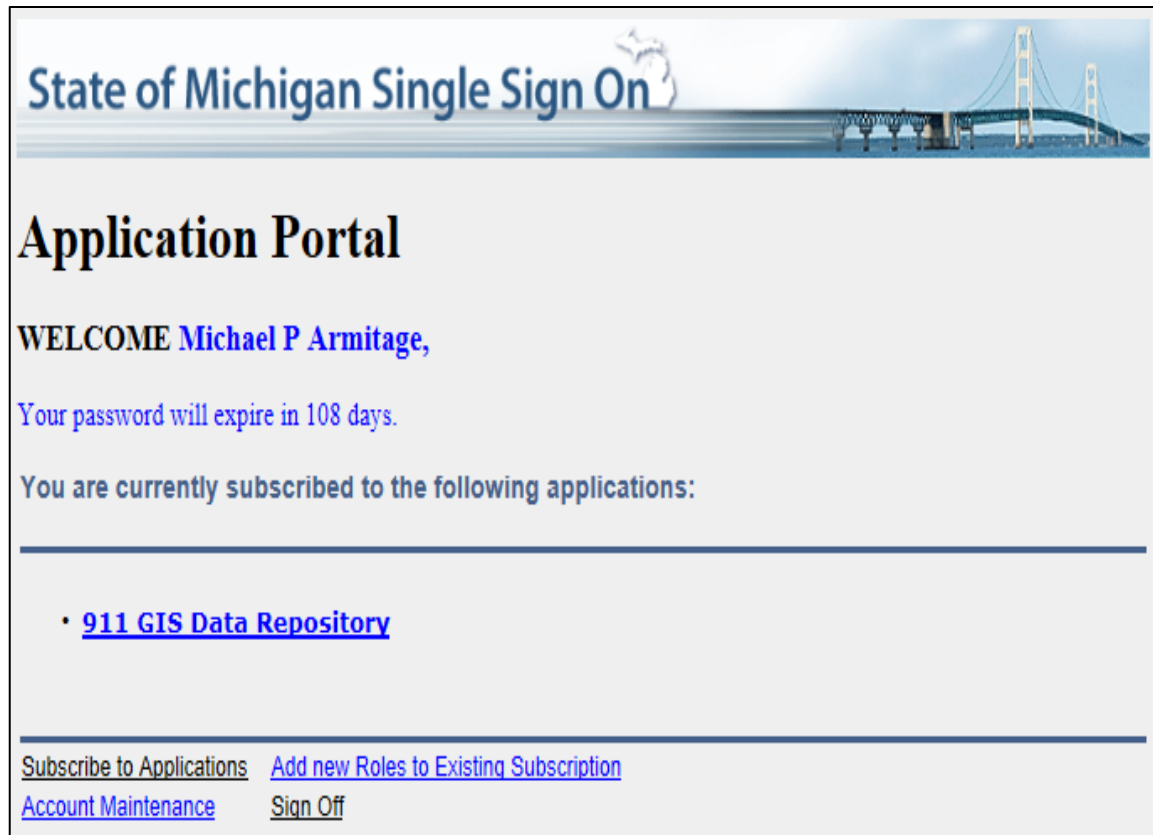
Michigan State Police ▼ 911 GIS Data Repository ▼

Next Back

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Single Sign-On

<https://sso.state.mi.us>



The screenshot shows the 'State of Michigan Single Sign On' application portal. At the top, there is a header with the text 'State of Michigan Single Sign On' and a small map of Michigan. Below the header is a banner image of a bridge. The main content area is titled 'Application Portal' and includes a welcome message: 'WELCOME Michael P Armitage,'. It also states 'Your password will expire in 108 days.' and 'You are currently subscribed to the following applications:'. A list of applications is shown, with '911 GIS Data Repository' being the only one listed. At the bottom, there are links for 'Subscribe to Applications', 'Add new Roles to Existing Subscription', 'Account Maintenance', and 'Sign Off'.

State of Michigan Single Sign On

Application Portal

WELCOME Michael P Armitage,

Your password will expire in 108 days.

You are currently subscribed to the following applications:

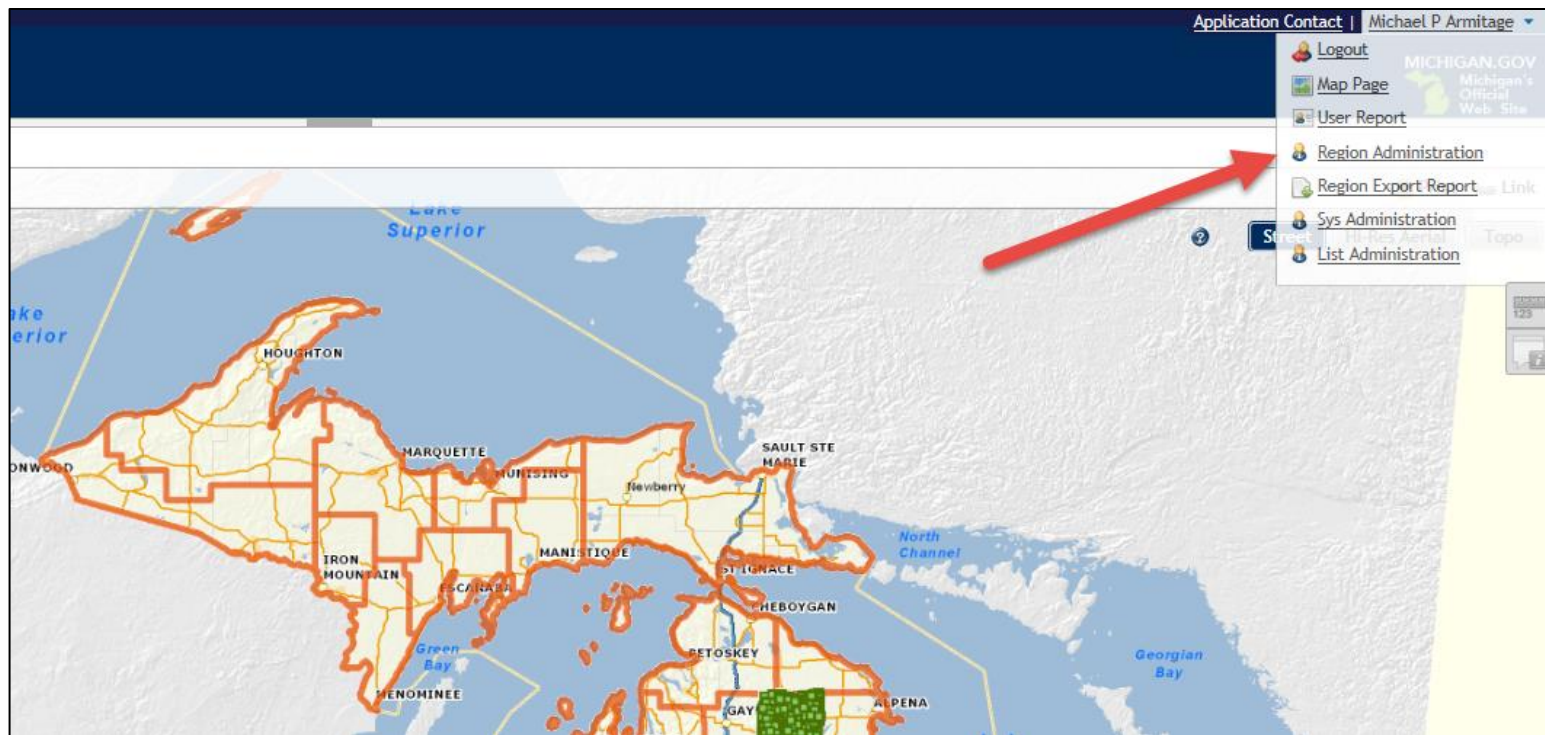
- [911 GIS Data Repository](#)

[Subscribe to Applications](#) [Add new Roles to Existing Subscription](#)
[Account Maintenance](#) [Sign Off](#)

Once approved, the 911 GIS application will appear once you sign on.

Region Administration Tools

Region/PSAP administrators can administer access privileges to their region through the 'Region Administration' link on the top pull-down.



Region Administration Tools

Administration

This is a screenshot of the 'Region Administration' page.

Regions

Users



Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

▶ Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic



Mark E Holmes



Matt Waldron



Michael P Armitage



Robert J Hughes



Todd Brock



▶ Allegan County Central Dispatch

Set Permissions for Jeffrey Bracket

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>View Pending</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				



Save

✖ Cancel

Region Administration Tools

Region administrators can search for approved users to assign to their county/region.

Administration

Regions Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

Alcona County Central Dispatch

Jeffrey Brackett

Laura L Blastic

Mark E Holmes

Michael P Armitage

▶ Alger County Sheriff Department

▶ Allegan County Central Dispatch

Alcona County Central Dispatch

Search Type: ☒ Full Name ☐ Email

michael

Michael P Armitage, armitagem@michigan.gov, State of Michigan, 911 Dispatch

Michael Thompson, mthompson@otsegocountymi.gov, Otsego County Central Dispatch, 911 Dispatch

✓ A notification will be sent

Region Administration Tools

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

▼ Alcona County Central Dispatch

Jeffrey Bracket

Laura L Blastic

Mark E Holmes

Michael P Armitage

▶ Alger County Sheriff Department

▶ Allegan County Central Dispatch

▶ Alpena County Central Dispatch

▶ Antrim County Central Dispatch

▶ Arenac County Central Dispatch

▶ Baraga County

▶ Barry County Central Dispatch

▶ Bay County Central Dispatch

▶ Benzie County Sheriff Department

▶ Berrien County Public Safety Communications Center

▶ Branch County Central Dispatch

Alcona County Central Dispatch

Search Type: ☒ Full Name ☐ Email

You've selected the following users to add to Alcona County Central Dispatch

- Michael Thompson
mthompson@otsegocountymi.gov

Permissions

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Edit</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Import</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Export</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Check All</u>				

Save

Cancel

A notification will be sent

Region Administration Tools: Permissions

Administration

By clicking on the user, the region administrator can assign specific privileges to the user.

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

► Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic

Mark E Holmes

Matt Waldron

Michael P Armitage


Robert J Hughes


Todd Brock

► Allegan County Central Dispatch

Set Permissions for Matt Waldron

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				

 Save

 Cancel

PSAP Administration:

Remove User from PSAP

◆ Removing User Accounts

- Rights are removed by PSAP Administrator
- Account is disabled by System Administrator – request needs to be submitted by PSAP Administrator
- Can be re-enabled if user goes to work at another PSAP

Removing User Accounts

Administration

Regions Users



Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

- ▶ Alcona County Central Dispatch
- ▼ Alger County Sheriff Department
 - Laura L Blastic
 - Mark E Holmes
 - Matt Waldron**
 - Michael P Armitage
 - Robert J Hughes
 - Todd Brock
- ▶ Allegan County Central Dispatch

Click the red 'x' to remove access to your county/region by the user.

Set Permissions for Matt Waldron

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				

 Save  Cancel

Removing User Accounts

Administration

Regions

Users

Click the left arrow to view region menu, click the user name to set permissions, click the plus icon to add or remove users.

▶ Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic

Mark E Holmes

Matt Waldron

Michael P Armitage

Robert J Hughes

Todd Brock

▶ Allegan County Central Dispatch

▶ Alpena County Central Dispatch



Remove this user

Remove Matt Waldron from Alger County Sheriff Department?



Yes, remove this user

or



No, Don't remove

CLOSE X

Can Edit



Can Import



Can Export



Check All

Save

X Cancel

Waldron

Roads

Structures

Emergency
Service
Zones



PSAP Administration Tools

Requesting data export rights for user

PSAP A



PSAP Administrator
sends request for CAD
Administrator to have export rights
for neighboring county

PSAP Administrator and
CAD Administrator receive
status email

PSAP B



PSAP Administrator
receives email to log into
system and grant user export
rights to PSAPs data

PSAP Administrator
approves or denies
export privileges



PSAP Administration: Requesting Permission

Administration

Region administrators can request their users receive import/export privileges with other regions.

Regions

Users

Below are users currently assigned to one or more of your regions. You may, edit a user's information, request access to another PSAP, deactivate the user, or create a new user. *Note that newly created users will not display in this list until they are assigned to a region.*

 New User

Name	Email	Organization	Type	Phone Number	Action
Amy L Beach		Ogemaw County Central Dispatch	911 Dispatch	989-345-4911 	  
Andrew Giguere		Leelanau County	County GIS Contact	231-256-8152 	  
Andrew Hartwick		St Clair County Central Dispatch	County GIS Contact	269-467-5576 	  
Ann Gasperich		Keweenaw County	911 Dispatch	906-337-3471 	  
April Heinze		Eaton County Central Dispatch	911 Dispatch	517-543-4924 	  

PSAP Administration: Requesting Permission

Administration


Regions

Users


Request access for Amy L Beach to another Region.


Access: ☐ Import ☐ Edit ☐ Export

Feature: ☐ Region ☐ Roads ☐ Structures ☐ ESZs

Region: 

Comments:

 Save

 Cancel

PSAP Administration: Users

Administration

Region administrators can edit information for their region's users.

Regions

Users

Below are users currently assigned to one or more of your regions. You may, edit a user's information, request access to another PSAP, deactivate the user, or create a new user. *Note that newly created users will not display in this list until they are assigned to a region.*

 New User

Name	Email	Organization	Type	Phone Number	Action
Amy L Beach		Ogemaw County Central Dispatch	911 Dispatch	989-345-4911	  
Andrew Giguere		Leelanau County	County GIS Contact	231-256-8152	  
Andrew Hartwick		St Clair County Central Dispatch	County GIS Contact	269-467-5576	  
Ann Gasperich		Keweenaw County	911 Dispatch	906-337-3471	  
April Heinze		Eaton County Central Dispatch	911 Dispatch	517-543-4924	  

PSAP Administration: Users

Administration

Regions

Users

User Information

Contact Info

Email

*

First Name

*

Amy

Middle Initial

Last Name

*

Beach

Organization

Ogemaw County Central Dispatch

▼

Type

911 Dispatch

▼

Phone

*

989-345-4911

☒ Active

☒ Notify user

☐ View or add comments to notification

Save

Cancel

Data Sharing and Agreements

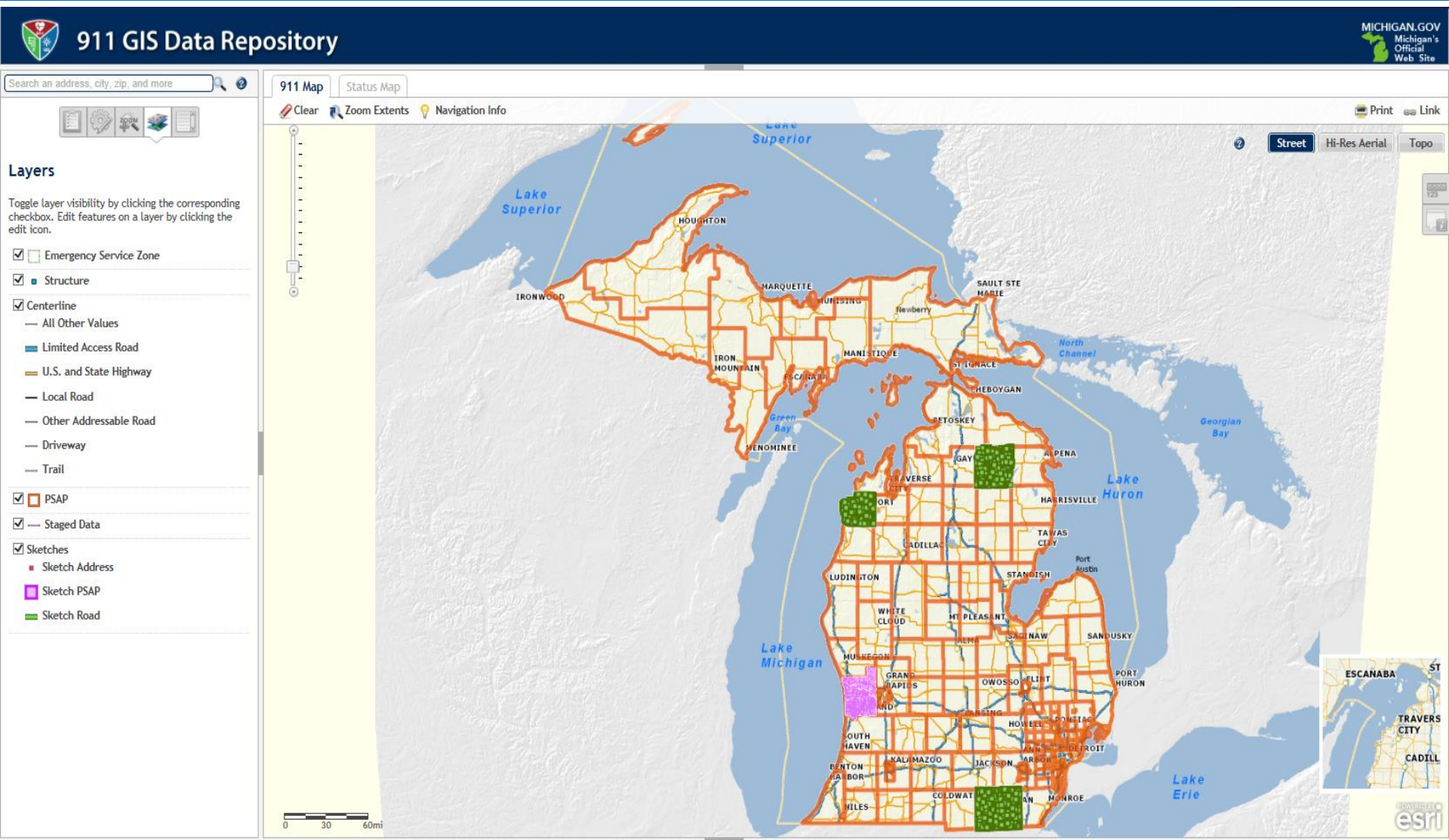
- ◆ Memorandum of Agreement between CSS and each participating entity
 - Outlines roles and responsibilities of CSS and participants
 - Established disclaimers for data sharing
 - Signed agreement
- ◆ Exported data can only be used for 911 and public safety purposes

Data Viewer

◆ Potential Uses

- Only available for public safety via secure log in
- The data viewer could benefit PSAPs where mapping does not currently exist for dispatch
- The data viewer can be used to search addresses in other jurisdictions
- Supplemental map to existing systems
- Accessible via wireless in field or mobile command
- Can be accessed in an EOC during large incident crossing multiple jurisdictions

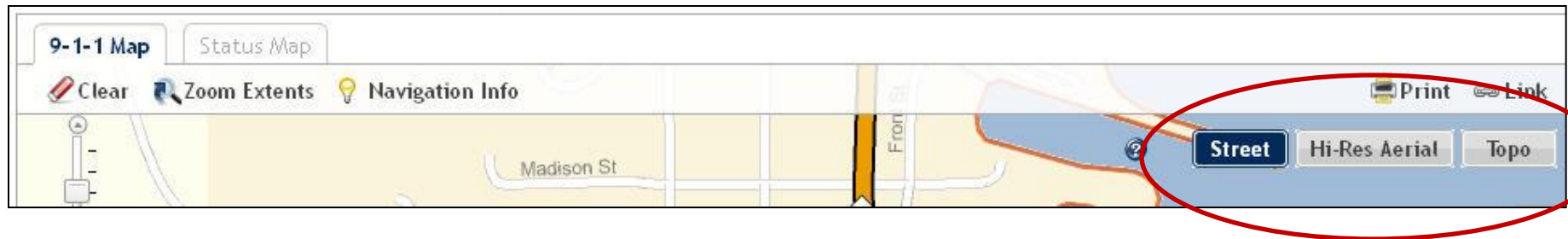
Data Viewer



Data Viewer

Users can view the maps in one of three modes:

- Street
- Hi-Res Aerial
- Topo

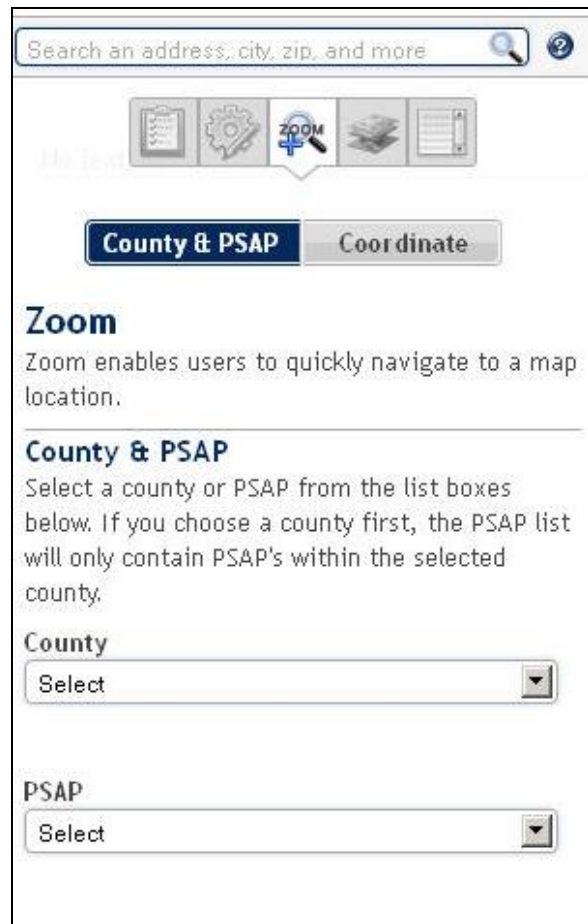


Data Viewer



Users can select which layers they would like to view (located on the left-hand side)

Data Viewer



Search an address, city, zip, and more

County & PSAP Coordinate

Zoom

Zoom enables users to quickly navigate to a map location.

County & PSAP

Select a county or PSAP from the list boxes below. If you choose a county first, the PSAP list will only contain PSAP's within the selected county.

County

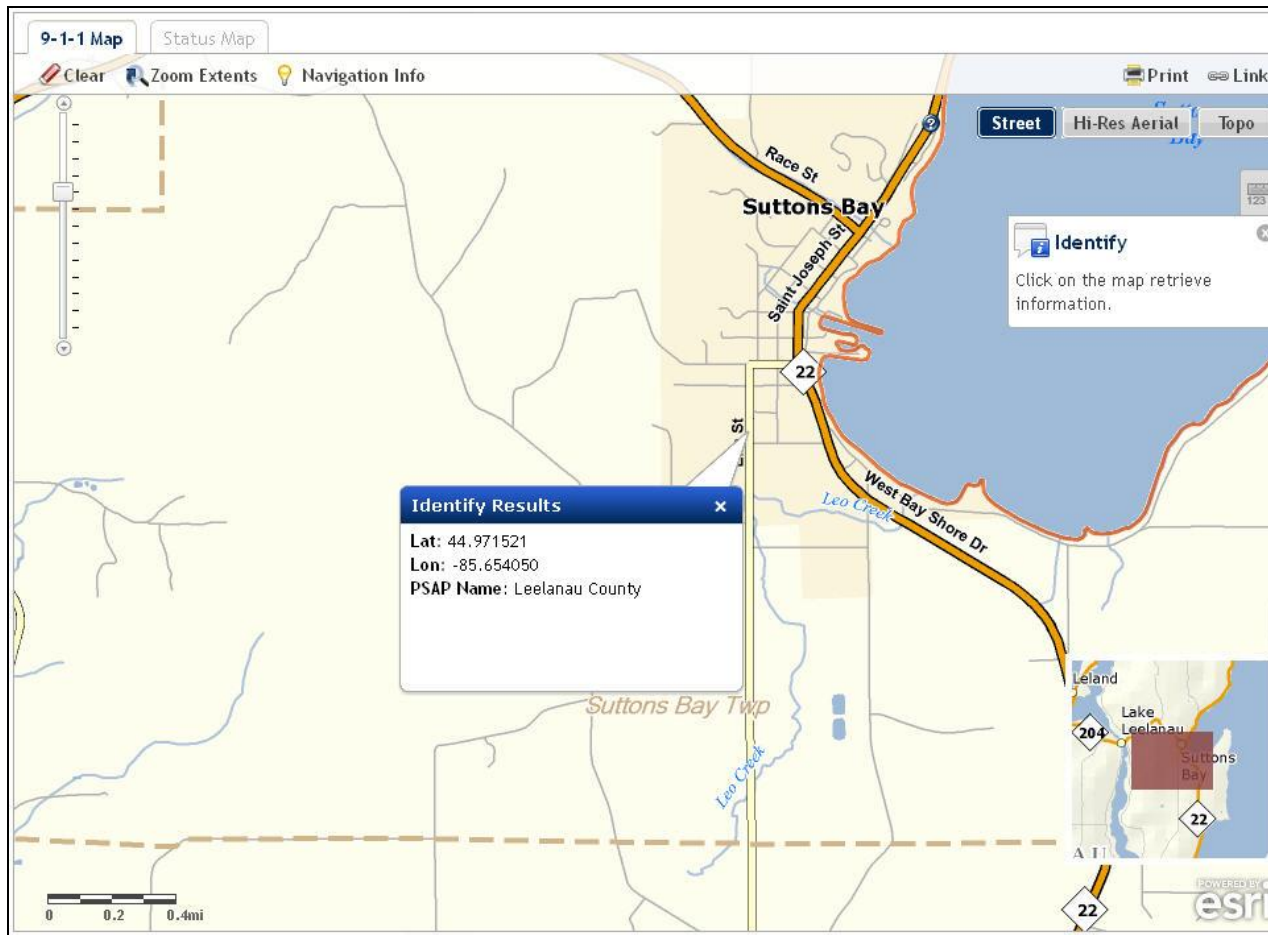
Select

PSAP

Select

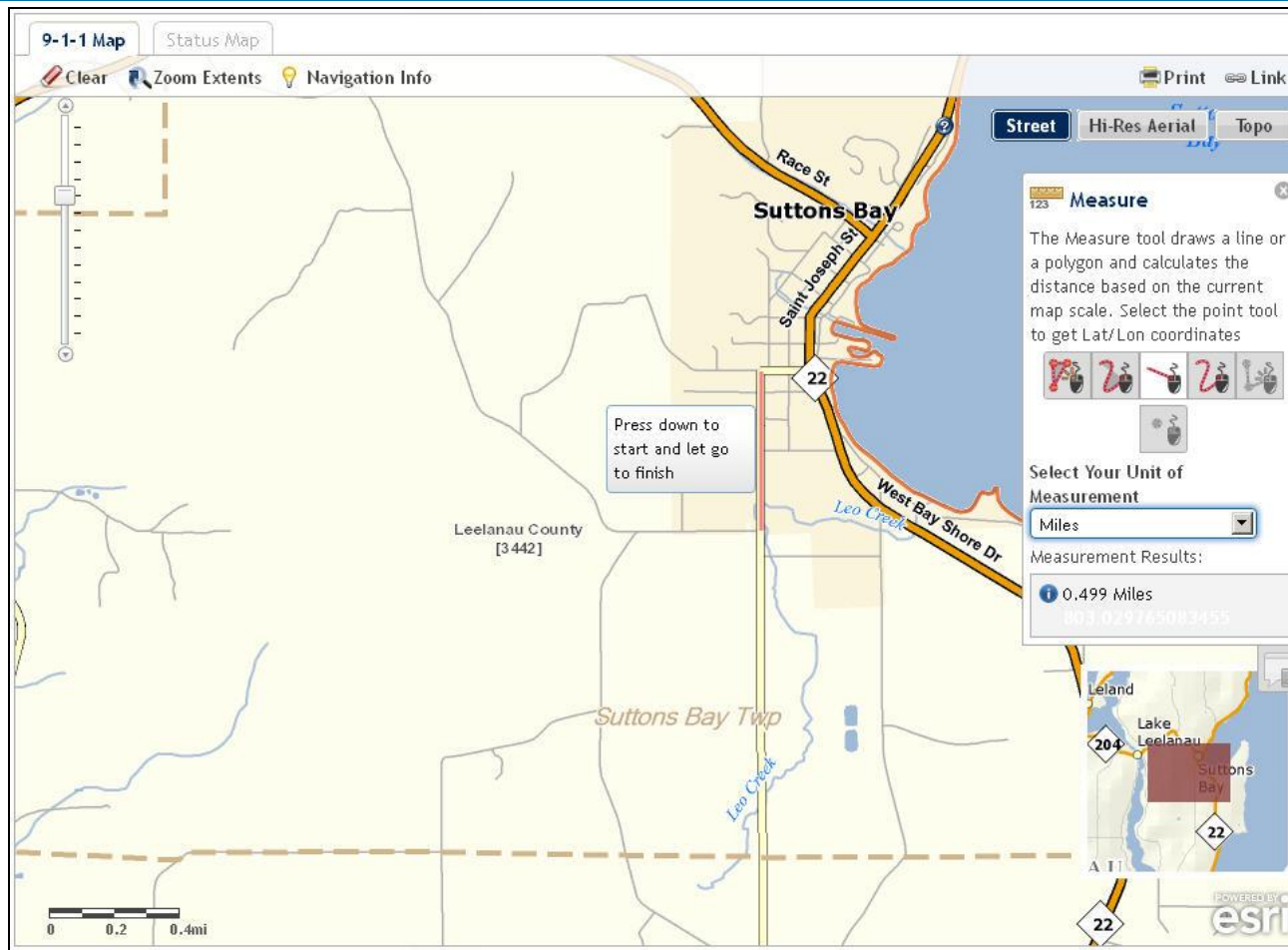
Zoom options are also available on the left toolbar

Data Viewer



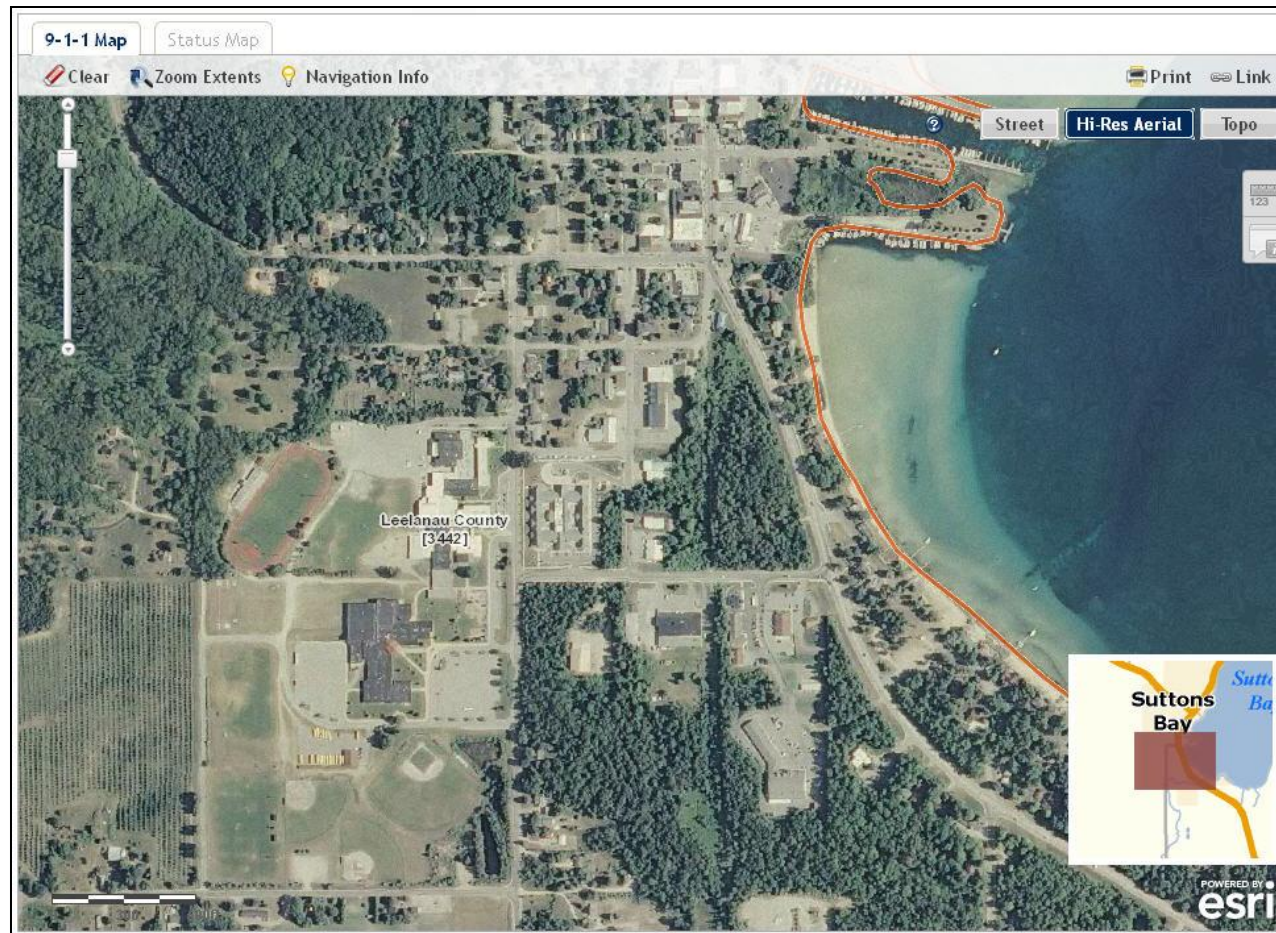
The 'identify' button will provide additional information (such as PSAP data) when you click on a location on the map.

Data Viewer



Measuring tools are available on the right side of the viewer.

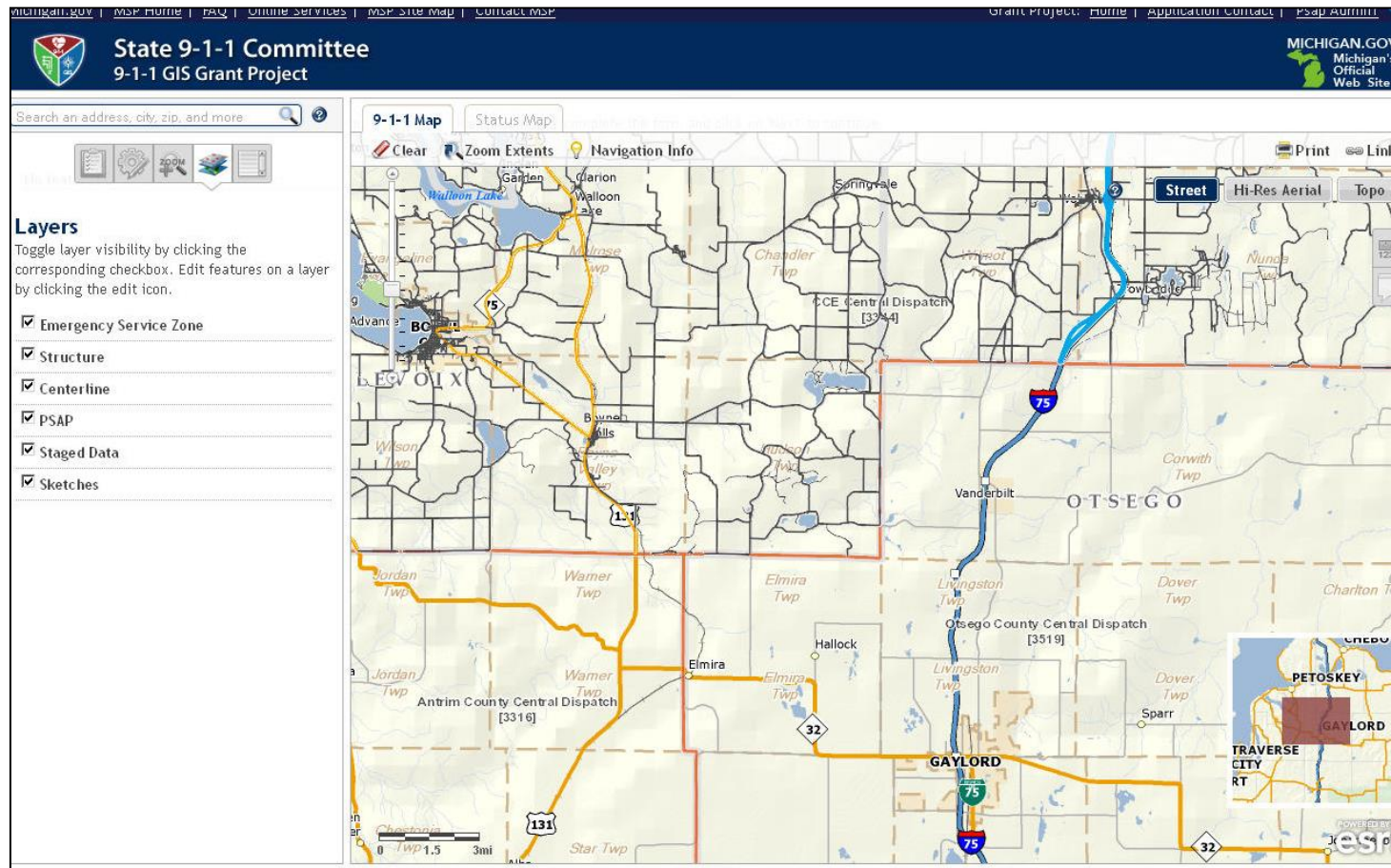
Data Viewer



Data Viewer

- ◆ Map Symbology
 - Populate FCC codes
 - Populate RDCLASS field
 - Outlined in addressing guide

Data Viewer



Import Data

- ◆ Road centerlines
- ◆ MSAG – only for validation against new centerline layer being uploaded
- ◆ Emergency Service Zones – Optional
 - Beneficial for Mutual Aid
 - Will be beneficial for NG911 and interoperability
- ◆ Site Structure Points – Optional
 - Can be partial layer

Import Data

Search an address, city, zip, and more

Workflow
Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data **Import Data**

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+
Edit	Approval	Pending (1)	08/20/2012	+
Export	End	Complete	08/20/2012	+

9-1-1 Map **Status Map**

Clear Zoom Extents Navigation Info

The map displays a portion of Michigan, including Kalamazoo County and parts of Allegan and Van Buren counties. Key locations shown include Kalamazoo, Spring Lake, Holland, and Grand Haven. Major roads like I-196 and I-26 are visible. The map is overlaid with a grid and various labels for cities, towns, and roads.

Import Data

Search an address, city, zip, and more

No features

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Pending	09/06/2012	
Export	End	Complete	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Errors	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	08/29/2012	
Import	QA/QC	Pending	08/29/2012	
Edit	Approval	Pending (1)	08/20/2012	
Export	End	Complete	08/20/2012	
Change	Approval	Pending (1)	08/16/2012	

9-1-1 Map

Status Map

Data Wizard

able and click on 'Next' to continue.

Select a layer and upload files

Select a PSAP of the data

Clare County Central Dispatch

Select a layer to upload:

ROAD CENTERLINES

Select files

(.dbf, .prj, .shp, and .shx):

Browse...

Next >>

Select file(s) to upload by msp911.kimbaldata.com

Look in: ApplicationTest

Name	Date modified	Type
Alcona_Roads.dbf	6/19/2012 8:49 PM	DBF File
ClareRds.dbf	9/6/2012 3:57 PM	DBF File
ClareRds.prj	7/2/2012 10:03 PM	PRJ File
ClareRds.shp	9/6/2012 3:57 PM	SHP File
ClareRds.shx	9/6/2012 3:57 PM	SHX File
Roads.prj	3/27/2012 6:25 PM	PRJ File
roads.shp	6/19/2012 8:49 PM	SHP File
roads.shx	6/19/2012 8:49 PM	SHX File

File name: "ClareRds.shx" "ClareRds.dbf" "ClareRds.prj" "

Files of type: *.dbf;*.prj;*.shp;*.shx

Open

Cancel

Import Data

9-1-1 Map Status Map **Data Wizard** and click on 'Next' to continue.






Please match data fields.

ROAD CENTERLINES

Match Fields


<u>Repository Standards</u>	<u>Your Shapefile Fields</u>
SOURCE (type:A) *	SOURCE
DATEUPD (type:D) *	DATEUPD
EFFDATE (type:D)	
RCLID (type:A) *	RCLID
COUNTRY (type:A) *	COUNTRY
STATE_L (type:A) *	STATE_L
STATE_R (type:A) *	STATE_R
COUNTY_L (type:A) *	COUNTY_L
COUNTY_R (type:A) *	COUNTY_R
MUNI_L (type:A) *	MUNI_L
MUNI_R (type:A) *	MUNI_R
MCDDIV_L (type:A) *	
MCDDIV_R (type:A) *	
UNCORP_L (type:A)	
UNCORP_R (type:A)	


Import Data

















Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

 **Export Data**

 **Import Data**

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Pending	09/06/2012	
Export	End	Complete	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Errors	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	08/29/2012	
Import	QA/QC	Pending	08/29/2012	
Edit	Approval	Pending (1)	08/20/2012	
Export	End	Complete	08/20/2012	

9-1-1 Map

Status Map

Workflow Details

Data Wizard

to continue

Centerline QA/QC Report (Flag Summary)

Flag Name	Flags	Exceptions
Record_Count	3849	0
MUNI_LR_IsEmpty	1	0
EFFDATE_DatatypeNotValid	3849	0
LOGreaterThanHI	24	0
RangeContainsAllZeros	213	0
RangeParityInvalid	8	0
RangeOverlap	65	0
STSTNoMatch	1	0
FlippedRange	12	0

Select a Flag Name above to see all records that failed that scrub.

Export with No Data (flags only): [Excel](#) [CSV](#)

Export with Data: [Excel](#) [CSV](#)

Import Data

Search an address, city, zip, and more



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/08/2012	+
Import	QA/QC	Errors	09/08/2012	+
Import	QA/QC	Errors	09/08/2012	+
Export	End	Complete	09/08/2012	+
Export	End	Complete	09/08/2012	+
Export	End	Complete	09/08/2012	+
Edit	End	Deleted	09/07/2012	+
Edit	Approval	Pending (1)	08/27/2012	+
Change	Approval	Pending (1)	08/21/2012	+
Edit	Approval	Pending (5)	08/20/2012	+
Change	Approval	Pending (10)	08/20/2012	+

9-1-1 Map

Status Map

Workflow Details

Data Wizard

[Continue](#)

Flagged Records

Displaying records that failed the Flag: RangeOverlap

[Back to Summary](#)

[First](#)

[Previous](#)

Page 1 of 4

20

[Next](#)

[Last](#)

Record Count: 65

RCLID	Street	Left Community	Right Community	LLO	LHI	RLO	RHI	Exception
1981	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	7501	7989	7500	7988	0
1982	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6001	6299	6000	6298	0
1983	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6301	6549	6300	6548	0
1984	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6551	6699	6550	6698	0
1987	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6051	6999	6050	6998	0
3346	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	7501	7989	0	0	0
3318	BEECH TREE	SURREY TWP	SURREY TWP	3131	3199	3130	3200	0
3320	BEECH TREE	SURREY TWP	SURREY TWP	3131	3149	3130	3148	0
3147	S CLARE AVE	GRANT TWP	GRANT TWP	9041	9999	9040	9998	0
841	S CLARE AVE	GRANT TWP	GRANT TWP	9001	9939	9000	9938	0
3380	N CORNING ST	FARWELL	FARWELL	171	299	170	298	0
2414	N CORNING ST	FARWELL	FARWELL	1	199	2	198	0
3145	S EBERHART AVE	GRANT TWP	GRANT TWP	11911	11999	11900	11998	0
842	S EBERHART AVE	GRANT TWP	GRANT TWP	11001	11909	11000	11908	0
1027	FIVE LAKES DR	GRANT TWP	GRANT TWP	7401	7579	7400	7578	0
3096	FIVE LAKES DR	GRANT TWP	GRANT TWP	7581	7749	7580	7748	0

Import Data

◆ Exception Field

- Add a field called EXCEPTION to your local data – Long Integer Data Type

Exception Code	Exception Description
1	Limited Access Highway Features
2	Driveways or Non-Addressable Feature
3	Legacy Addressing Scenario
4	Local Road Naming Convention
5	Value Falls Outside of Jurisdiction
6	Correction Pending Local Review
7	Overlapping Segment Is Valid

Import Data

- ◆ RCLIDs – Need to be populated and unique
 - Can use any local unique ID locally, needs to be compatible for upload into alphanumeric field type with a 50 character limit
 - Populate using OBJECTID or FID during import process or calculate that field to OBJECTID or FID in your local data

Import Data

- ◆ QA/QC check similar to data assessments that were run as part of grant project
- ◆ Additional field checks during import
 - Jurisdiction values
 - Source and date of update
- ◆ Critical Errors – that would prevent loading of data
 - no projection file, no RCLID, data types

Export Data

- ◆ User needs to have been assigned export rights to export any other jurisdiction's dataset
- ◆ PSAP Administrator must initiate request for one of their users to have export rights to neighboring jurisdiction's data
- ◆ PSAP Administrators have export rights to all dataset as a system setting
 - Allows for access to datasets in case of large emergency event

Export Data

911 GIS Data Repository

Search an address, city, zip, and more

Workflow

Listed below are tasks that were created by your edits to the geographic data or by changes other users have made that need your approval.

Export Data **Import Data**

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	
Export	End	Complete	01/16/2015	
Export	End	Complete	01/16/2015	
Edit	End	Deleted	10/28/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Complete	10/18/2012	

911 Map **Status Map**

Map of Michigan

Map showing Michigan with major cities labeled: Houghton, Marquette, Sault Ste Marie, Escanaba, St Ignace, Alpena, Ironwood, Traverse City, Cadillac, Saginaw, Muskegon, Grand Rapids, Flint, Port Huron, Lansing, Detroit, Benton Harbor, and Malcom. Lakes Superior, Huron, Michigan, and Erie are also labeled. A scale bar indicates 0, 50, and 100 miles.

Export Data

[Michigan.gov](#) | [MSP Home](#) | [FAQ](#) | [Online Services](#) | [MSP Site Map](#) | [Contact MSP](#)

[Application Contact](#) | [Amanda M Myer](#)



911 GIS Data Repository

MICHIGAN.GOV
Michigan's
Official
Web Site

Search an address, city, zip, and more

911 Map

Status Map

Data Wizard



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	
Export	End	Complete	01/16/2015	
Export	End	Complete	01/16/2015	
Edit	End	Deleted	10/28/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Complete	10/18/2012	



Select Shapes Clear Selection

☐ Download for whole MI State

- 1 Extract Type:
Map
- 2 Layer to download (required):
Required Select
- 3 Select Shapes on Map (required):

Select Shapes Clear Selection
Download Press down to start and let go to finish
- 4 Next

You have permissions to export highlighted counties.

For areas that are not highlighted contact your administrator for access.

POWERED BY
esri

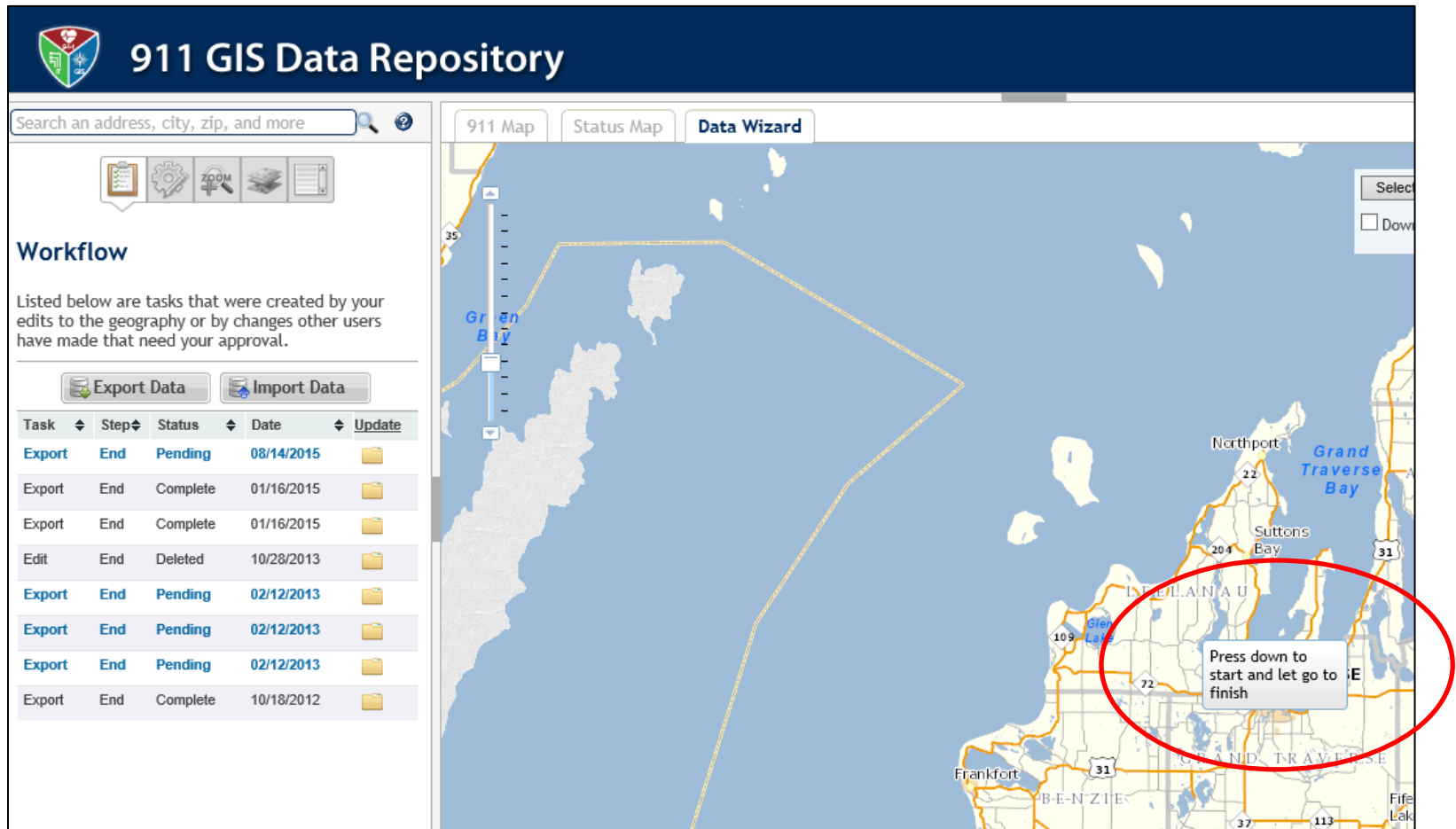
[Michigan.gov Home](#) | [MSP Home](#) | [State Web Sites](#) | [Contact MSP](#)

[Application Contact](#) | [Geographic Data Library](#)

[Privacy Policy](#) | [Link Policy](#) | [Accessibility Policy](#) | [Security Policy](#) | [Michigan News](#) | [Michigan.gov Survey](#)

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Export Data



911 GIS Data Repository

Search an address, city, zip, and more

911 Map Status Map Data Wizard

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data Import Data

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	
Export	End	Complete	01/16/2015	
Export	End	Complete	01/16/2015	
Edit	End	Deleted	10/28/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Complete	10/18/2012	

Press down to start and let go to finish

Export Data

911 Map

Status Map

Data Wizard

Select Shapes

Clear Selection

☐ Download for whole MI State

1 Extract Type:
Map

2 Layer to download
(required):
Required Select

3 Select Shapes on Map
(required):

Select Shapes

Clear Selection

Download

Press down to start and let go to finish

4

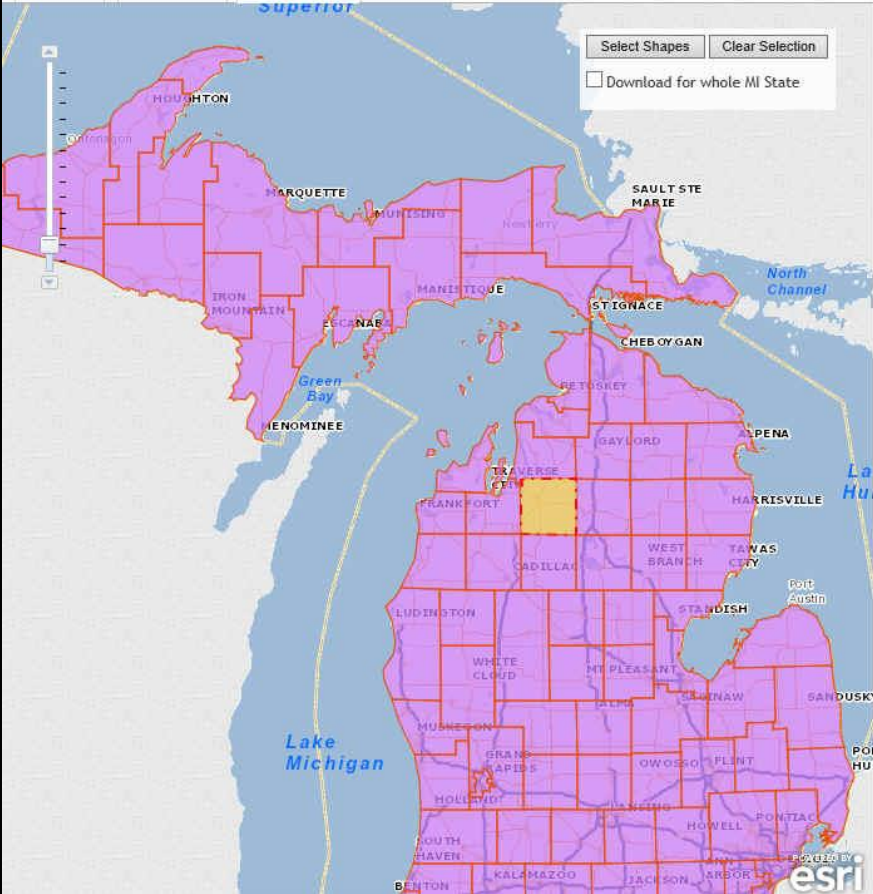
Next

☐ You have permissions to export highlighted counties.

For areas that are not highlighted contact your administrator for access.

Selected features:

- Kalkaska County Central Dispatch



Export Data

Search an address, city, zip, and more

No features

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Pending	09/06/2012	
Export	End	Complete	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Errors	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	08/29/2012	
Import	QA/QC	Pending	08/29/2012	

9-1-1 Map

Status Map

Workflow Details

Data Wizard

to continue.

Select a layer and the extent for extraction

Next >>

1. Layer to download: ROAD CENTERLINES

2. Data Extent for extraction from: PSAP list

Your rights to download

You are a PSAP administrator. You can download any layers of any PSAPs.

(1) Select Counties

(2) Select PSAPs

Iron

Isabella

Jackson

Kalamazoo

Clare County Central Dispatch

Isabella County Central Dispatch

Selected features: Isabella County Central Dispatch

Next >>

Export Data

Search an address, city, zip, and more

No features found

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Pending	09/06/2012	
Export	End	Complete	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Errors	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	08/29/2012	
Import	QA/QC	Pending	08/29/2012	

9-1-1 Map

Status Map

Workflow Details

Data Wizard

Please match data fields.

ROAD CENTERLINES

Match Fields

Profile: My download Profile ☐ In-reverse from your upload profile

State Geodatabase	Your Shapefile Field
SOURCE (type:A) *	COUNTRY Type: Alphanumeric
DATEUPD (type:D) *	DATEUPD Type: Alphanumeric
EFFDATE (type:D) *	EFFDATE Type: Alphanumeric
RCLID (type:A) *	RCLID Type: Alphanumeric
COUNTRY (type:A) *	SOURCE Type: Alphanumeric
STATE_L (type:A) *	STATE_L Type: Alphanumeric
STATE_R (type:A) *	STATE_R Type: Alphanumeric
COUNTY_L (type:A) *	COUNTY_L Type: Alphanumeric
COUNTY_R (type:A) *	COUNTY_R Type: Alphanumeric
MUNI_L (type:A) *	MUNI_L Type: Alphanumeric
MUNI_R (type:A) *	MUNI_R Type: Alphanumeric
MCDDIV_L (type:A) *	MCDDIV_L Type: Alphanumeric
MCDDIV_R (type:A) *	MCDDIV_R Type: Alphanumeric

Export Data

Search an address, city, zip, and more



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

[Export Data](#) [Import Data](#)

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+

9-1-1 Map Status Map Workflow Details **Data Wizard** to continue.

Select a projection:

WGS_1984_Web_Mercator

☒ **Terms and Conditions:** As a data exporter you are agreeing to abide by the terms and conditions outlined in the Memorandum of Agreement for this 9-1-1 GIS data repository. The terms of the memorandum of agreement (MOA) outlines that the signed agreement is for the utilization of GIS data for 9-1-1 and public safety purposes within a statewide 9-1-1 GIS repository developed by CSSTP (9-1-1 GIS Program). All terms of GIS data use outlined in your agency's MOA with CSSTP must be adhered to. These include but are not limited to the following requirements:

Data originators participating in the 9-1-1 GIS repository authorize their 9-1-1 GIS data to be used by other PSAPs that are participating in the 9-1-1 GIS Program and who may request regional datasets to be used in their 9-1-1 systems.

In the event that a third party requests data, one of the following three scenarios will also apply:

1) If your agency receives a request for your own data, that request shall be subject to your Enhanced Access to Public Records policy. There is no need for the request to go through or be approved by DTMB/CSSTP.

<< Previous

Process

Export Data

Search an address, city, zip, and more



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.



Task	Step	Status	Date	Update
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Pending	09/06/2012	
Export	End	Complete	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Import	QA/QC	Errors	09/06/2012	
Import	QA/QC	Flags	09/06/2012	
Export	End	Complete	09/06/2012	
Import	QA/QC	Flags	08/29/2012	

9-1-1 Map

Status Map

Workflow Details

Data Wizard

to continue.

Export Workflow, Created: 9/6/2012 11:06:12 PM

Step	Status	End	System Messages	Workflow Details
Begin	Complete	9/6/2012 11:07:02 PM		
End	Complete	9/6/2012 11:07:02 PM	Data is ready to download. Click here.	

Export Data

- ◆ CAD profiles
- ◆ Working with your CAD vendor to integrate regional maps
- ◆ Review edge-match, when possible, and coordinate with neighboring jurisdictions where larger discrepancies exist
- ◆ Data layers – road centerlines, PSAP boundaries, emergency services zones*, structure points*
(*incomplete statewide layers)

Red Line Edits – PSAP Boundary

- ◆ PSAP Boundary Change Requests
 - Internal communication must be established at local level for approval process
 - Jurisdictions where Michigan Geographic Framework road centerlines are being used have opportunity to use the PSAP Boundary Change tools to make requests or approve changes since PSAP layer developed for the project is statewide

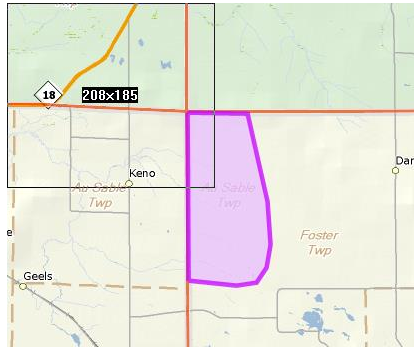
Red Line Tools – PSAP Boundary

Requesting PSAP Boundary Change

PSAP A



PSAP Administrator
makes red line edit and starts
approval workflow



PSAP B



PSAP Administrator
receives email to log into
system and approve PSAP boundary
change

PSAP Administrator receives
status email

PSAP Administrator
approves or denies PSAP
boundary change

Red Line Tools – PSAP Boundary

Requesting PSAP Boundary Change

CSS



If approved by all affected PSAPs. CSS staff make boundary change and workflow sent for final approval by all PSAPs affected by change

PSAP Administrator receives status email

Affected PSAPs



PSAP Administrators receive email to log into system, review final boundary edits, and make final approval

PSAP Administrator approves or denies PSAP boundary change

Red Line Edits – Roads or Points

- ◆ All users can add red line edits for road or structure points
 - Internal protocol for who red lines can be established, if necessary
 - Notification email goes to PSAP admin and GIS importer for the jurisdiction that the red line is drawn
 - If road is drawn across multiple PSAP jurisdictions, PSAP admin and GIS importer from both jurisdictions get notifications

Red Line Edits – Roads or Points

The screenshot displays a web-based mapping application for 9-1-1 services. On the left, a sidebar contains a search bar, a toolbar with icons for editing (like a pencil, eraser, and zoom), and a section titled "Editing Tools" with a descriptive paragraph and a set of icons for adding features. A callout box at the bottom left provides instructions: "Please select Add Structure, Add Road, or Add PSAP and then click the map where the feature will appear." The main map area shows a grid of roads and land parcels. A prominent orange line runs horizontally across the map, labeled "72". A vertical road is labeled "Saunders Rd" and "66". A point labeled "Kerns Corner" is marked. A red line segment is drawn on the map, with a callout box stating "Double-click to complete". The top of the map has tabs for "9-1-1 Map" and "Status Map", and buttons for "Clear", "Zoom Extents", and "Navigation Info". The map also shows "Palmer Creek" and "Excelsior Twp".

Search an address, city, zip, and more

Editing Tools
Editing Tools enables users to edit existing or create new workflow.

Please select Add Structure, Add Road, or Add PSAP and then click the map where the feature will appear.

9-1-1 Map Status Map

Clear Zoom Extents Navigation Info

Old M 66

72

Kerns Corner

3429

Sigma Rd

Kniss Rd

Double-click to complete

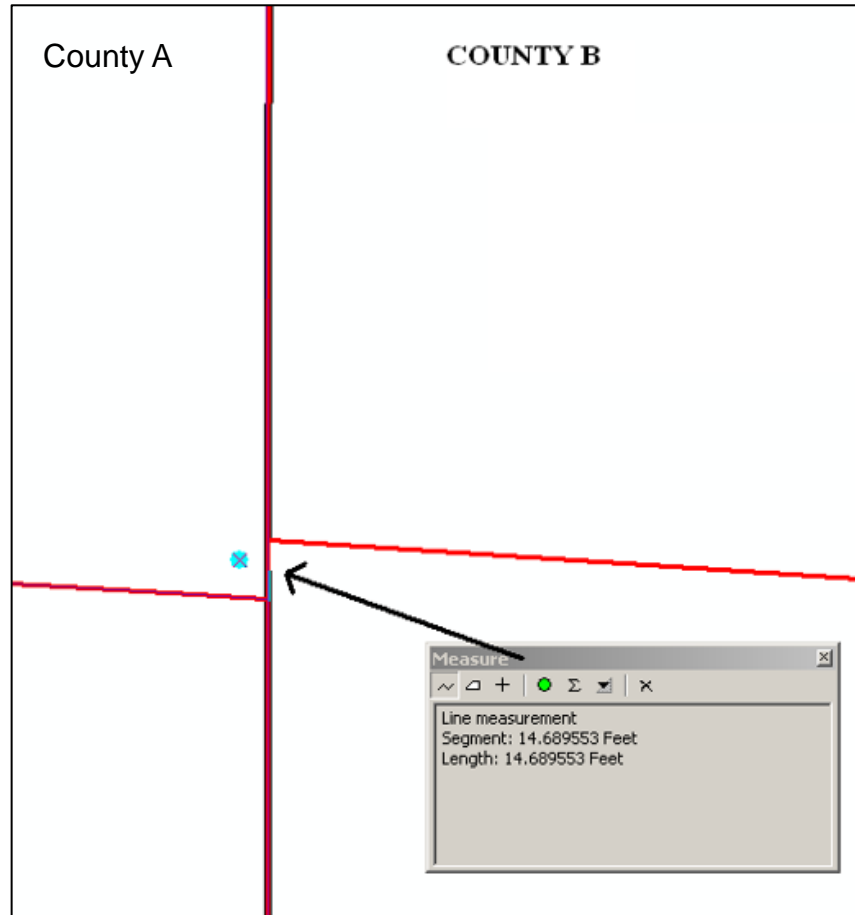
Edge-matching

- ◆ Edge-matching is run during import. Roads are snapped to PSAP boundary layer
- ◆ Continued coordination between jurisdictions for edge-matching and addressing attributes along boundaries is also a NENA recommendation for sustaining long-term 911 GIS data integrity in preparation for NG911

Edge-matching



Edge-matching



Addressing Guide

- ◆ Guidelines for addressing techniques
- ◆ Continue to incorporate standardization
- ◆ Road naming guidelines
- ◆ Addressing scenarios
- ◆ There will be unique local addressing scenarios
- ◆ GIS and MSAG synchronization

More Information

- ◆ www.michigan.gov/911GISGrant
- ◆ www.michigan.gov/snc
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